

**Notice of Allowability**

Application No.

09/849,866

Examiner

Jane Zara

Applicant(s)

CHUMAKOV ET AL.

Art Unit

1635

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2-26-04.
2. ☒ The allowed claim(s) is/are 10-26.
3. ☒ The drawings filed on 5-24-01 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance             |
|   | 9. <input checked="" type="checkbox"/> Other <u>NCBI</u>                              |

**SEAN McGARRY**  
**PRIMARY EXAMINER**

1635



CGCTCAGGATGAGACTTCGTCGGCTAGAGATCGGATCCCCGGGAGGATTATATAGCTCGATCGATCT  
 TTCTCTATATTCACGATATGGGATATATACACACACATTCGCGATAGCATGACTGATCTA  
 CCCCAGCTTCT  
 CACAGACTTACGCTTCT

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☐ 1: J01688. E.coli str operon...[gi:147887]

Links

LOCUS ECOSTR1 1016 bp DNA linear BCT 11-OCT-2000  
 DEFINITION E.coli str operon with rpsL and rpsG genes coding for ribosomal proteins S12 and S7.

ACCESSION J01688

VERSION J01688.1 GI:147887

KEYWORDS ribosomal protein; ribosomal protein S12; ribosomal protein S7; rpsG gene; rpsL gene; str operon.

SEGMENT 1 of 4

SOURCE Escherichia coli

ORGANISM Escherichia coli

Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales; Enterobacteriaceae; Escherichia.

REFERENCE 1 (bases 173 to 1016)

AUTHORS Post,L.E. and Nomura,M.

TITLE DNA sequences from the str operon of Escherichia coli

J. Biol. Chem. 255 (10), 4660-4666 (1980)

MEDLINE 80182129

PUBMED 6989816

REFERENCE 2 (bases 1 to 305)

AUTHORS Post,L.E., Arfsten,A.E., Reusser,F. and Nomura,M.

TITLE DNA sequences of promoter regions for the str and spc ribosomal protein operons in E. coli

Cell 15 (1), 215-229 (1978)

MEDLINE 79023059

PUBMED 151587

REFERENCE 3 (bases 1 to 1016)

AUTHORS Timms,A.R., Steingrimsdottir,H., Lehmann,A.R. and Bridges,B.A.

TITLE Mutant sequences in the rpsL gene of Escherichia coli B/r: mechanistic implications for spontaneous and ultraviolet light mutagenesis

Mol. Gen. Genet. 232 (1), 89-96 (1992)

MEDLINE 92204140

PUBMED 1552908

FEATURES Location/Qualifiers

source

1..1016

/organism="Escherichia coli"

/mol\_type="genomic DNA"

/db\_xref="taxon:562"

gene

303..677

/gene="rpsL"

CDS

303..677

/gene="rpsL"

/note="ribosomal protein S12"

/codon\_start=1

/transl\_table=11

/protein\_id="AAA50988.1"

/db\_xref="GI:147892"

/translation="MATVNQLVRKPRARKVAKSNVPALEACPQKRGVCTRVYTTTPKK

PNSALRKVCVRVLTNGFEVTSYIGGEGHNLQEHSVILIRGGRVKDLPVRYHTVRGAL

DCSGVKDRKQARSKYGVKRPKA"

gene

join(774..1016,J01689.1:1..99)

/gene="rpsG"

CDS

774..>1016



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 CCGCTATAT TCTTCGCG ATGCGG ATATACACACACATACCTCGCGATAGCATGCTGATCTA  
 CACAGACTT ACCGCTTCATCT ACTTACTAACCAATTCGGAGAGCGGCGGCGGCTGAGGAGGAG

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☐ 1: J01636. E.coli lactose op...[gi:146575]

Links

LOCUS ECOLAC 7477 bp DNA linear BCT 05-MAY-1993

DEFINITION E.coli lactose operon with lacI, lacZ, lacY and lacA genes.

ACCESSION J01636 J01637 K01483 K01793

VERSION J01636.1 GI:146575

KEYWORDS acetyltransferase; beta-D-galactosidase; galactosidase; lac operon;  
lac repressor protein; lacA gene; lacI gene; lacY gene; lacZ gene;  
lactose permease; mutagenesis; palindrome; promoter region;  
thiogalactoside acetyltransferase.

SOURCE Escherichia coli

ORGANISM Escherichia coli

Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
Enterobacteriaceae; Escherichia.

REFERENCE 1 (bases 1243 to 1266)

AUTHORS Gilbert,W. and Maxam,A.

TITLE The nucleotide sequence of the lac operator

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 70 (12), 3581-3584 (1973)

MEDLINE 74055539

PUBMED 4587255

REFERENCE 2 (bases 1246 to 1308)

AUTHORS Maizels,N.M.

TITLE The nucleotide sequence of the lactose messenger ribonucleic acid  
transcribed from the UV5 promoter mutant of Escherichia coli

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 70 (12), 3585-3589 (1973)

MEDLINE 74055540

PUBMED 4587256

REFERENCE 3 (sites)

AUTHORS Gilbert,W., Maizels,N. and Maxam,A.

TITLE Sequences of controlling regions of the lactose operon

JOURNAL Cold Spring Harb. Symp. Quant. Biol. 38, 845-855 (1974)

MEDLINE 74174501

PUBMED 4598642

REFERENCE 4 (sites)

AUTHORS Gilbert,W., Gralla,J., Majors,A.J. and Maxam,A.

TITLE Lactose operator sequences and the action of lac repressor

JOURNAL (in) Sund,H. and Blauer,G. (Eds.);

PROTEIN-LIGAND INTERACTIONS: 193-207;

Walter de Gruyter, New York (1975)

REFERENCE 5 (bases 1146 to 1282)

AUTHORS Dickson,R.C., Abelson,J., Barnes,W.M. and Reznikoff,W.S.

TITLE Genetic regulation: the Lac control region

JOURNAL Science 187 (4171), 27-35 (1975)

MEDLINE 75048325

PUBMED 1088926

REFERENCE 6 (bases 1227 to 1271)

AUTHORS Gilbert,W., Maxam,A. and Mirzabekov,A.

TITLE Contacts between the lac repressor and DNA revealed by methylation

JOURNAL (in) Kjeldgaard,N.C. and Maaloe,O. (Eds.);

CONTROL OF RIBOSOME SYNTHESIS: 138-143;

Academic Press, New York (1976)

REFERENCE 7 (sites)

AUTHORS Marians,K.J. and Brooker,J.D.

TITLE Structure of the lactose operator

JOURNAL Nature 260 (5549), 360-363 (1976)